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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/750,692	12/31/2003	Sang Hyun Moon	11037-178-999	2206	
24341	7590 03/21/2005		EXAMINER		
	, LEWIS & BOCKIUS	VU, B.	VU, BAO Q		
	TO SQUARE	ART UNIT	PAPER NUMBER		
3000 EL CAMINO REAL			ARI ONII	FAFER NUMBER	
PALO ALTO, CA 94306			2838	•	
			DATE MAILED: 03/21/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No. Applicant(s)				
Office Action Summary		10/750,692	MOON ET AL.	UK		
		Examiner	Art Unit			
		Bao Q. Vu	2838			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)	Responsive to communication(s) filed on					
2a) <u></u> □	This action is FINAL . 2b)⊠ This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims					
5)□ 6)⊠	4) ☐ Claim(s) 1-7 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1 and 2 is/are rejected. 7) ☐ Claim(s) 3-5 is/are objected to.					
Applicat	ion Papers					
9) ☐ The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948)	4)				
3) 🛛 Infor	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) er No(s)/Mail Date 12-31-03.		Patent Application (P	TO-152)		

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DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claim1 is rejected under 35 U.S.C. 102(b) as being clearly anticipated by Meier (USP 3,792,286). Meier in figure 1 and 2 discloses two inverters connected between the three-phase stator windings of the induction motor.
- 4. Claims 1 and 2 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Kawabata et al. (JPO 09-205797). Kawabata discloses a discloses two inverters connected between the three-phase stator windings of the induction motor having a capacitor and a battery interpose therein, see figure 2a-2e.

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Allowable Subject Matter

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5. Claim 3-5 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. The allowable subject matter is a q-axis current controller configured to provide proportional integral control based on a difference between a q-axis current command and a q-axis current, compensating back EMF, and generating a first q-axis voltage command; a magnetic flux controller configured to provide proportional integral control based on a difference between a magnetic flux command and magnetic flux, and generating a d-axis current command; a d-axis current controller configured to provide proportional integral control based on the difference between the d-axis current command and the d-axis current, and generating a first-d axis voltage command, a first d-q/three-phase coordinate converter adapted to receive the first q-axis voltage command and the first d-axis voltage command, and configured to convert the first q-axis voltage command and the first d-axis voltage command to a first three-phase voltage command;

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bao Q. Vu whose telephone number is (571) 272-2088. The examiner can normally be reached on Monday-Fridays, 8:00AM- 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael S. Sherry can be reached on (571) 272-2084. The fax phone

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number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Bao Q. Vu

Primary Examiner Art Unit 2838

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March 16, 2005